

ADVANCED REACTOR, FUEL CYCLE, AND ENERGY PRODUCTS WORKSHOP FOR UNIVERSITIES

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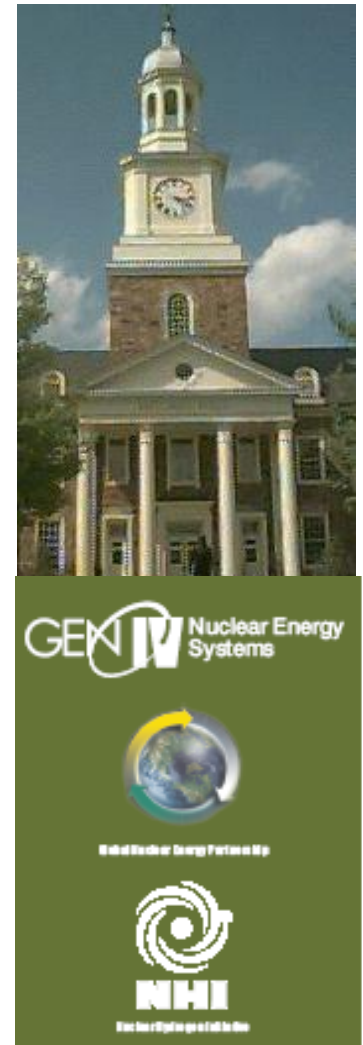
Workshop for Universities
Hilton Hotel, Gaithersburg, MD
March 20, 2007





Purpose

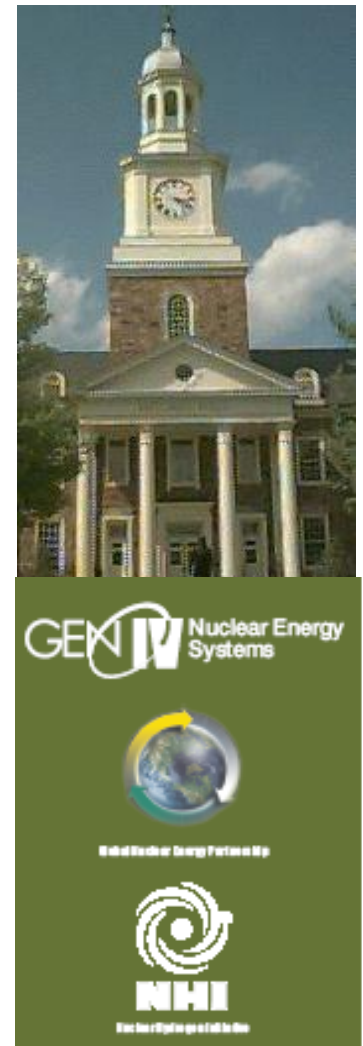
- ◆ **Familiarize** U.S. Universities with the R&D requirements of the priority R&D programs of DOE/NE:
 - Advanced Fuel Cycle Research and Development (AFCR&D) under the Global Nuclear Energy Partnership (GNEP)
 - Generation IV Nuclear Energy System Initiative (Gen IV)
 - Nuclear Hydrogen Initiative (NHI)





Purpose

- ◆ Introduce new Funding Opportunity Announcement
 - R&D focused (NERI)
 - University Program elements included
 - **Provide an opportunity for U.S. Universities to become directly involved in an integrated teaming relationship with DOE/NE**





Purpose

- ◆ Introduce another Funding Opportunity Announcement: **GNEP University Readiness**
 - Provide an opportunity for nuclear schools to prepare themselves to support **GNEP R&D programs**
 - \$4 million total (\$100K/per university)
 - One time award



Global Nuclear Energy
Partnership



NE Supports Universities

NE will continue to maintain a stewardship responsibility in the area of nuclear engineering and education research

In FY 2007:

- NE has announced the selection of 22 new NERI projects in support of AFCR&D, Gen IV and NHI for award
- NE has funded existing commitments under the former University Program
- NE will award 17 NEER projects
- NE will issue a two new Funding Opportunity Announcements

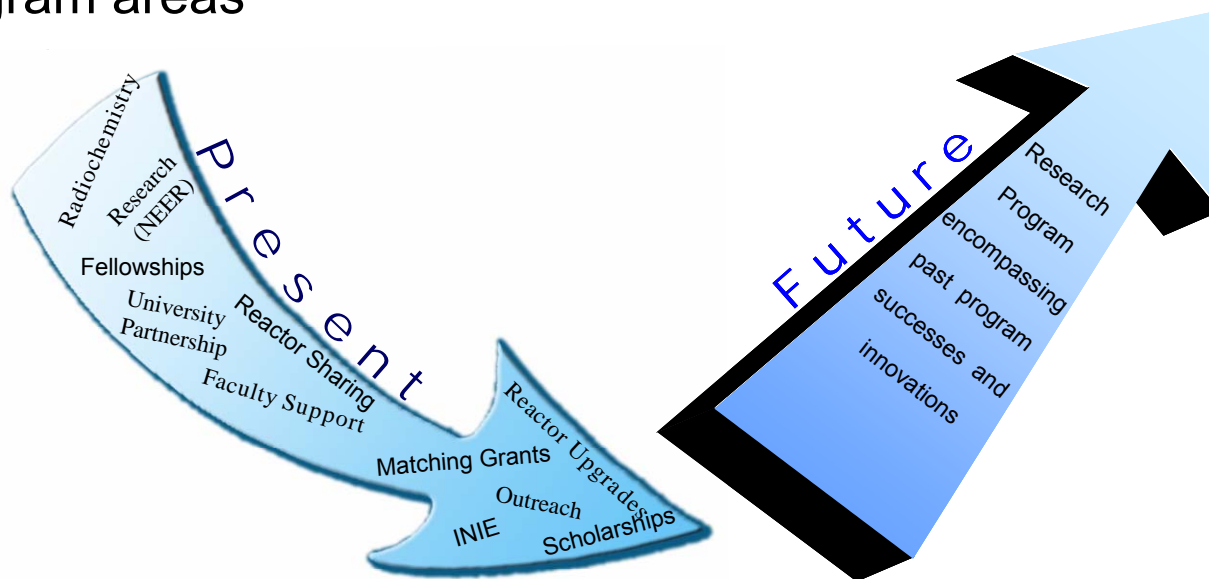




NE Supports Universities

The transition from a university program budget line item to embedding university research and support within our mission related R&D programs will provide:

- greater research opportunities for universities while incorporating infrastructure activities
- increased funding corresponding to increases in NE's research program areas





NE supports Universities

- ◆ **Total support for university activities in FY 2006 was approximately \$50M**
- ◆ **This funding level of \$50M will continue in FY 2007**
- ◆ **Based on our FY 2008 budget request we expect growth in our university funding commensurate with the growth in GNEP**
- ◆ **NE has requested a waiver from the Secretary of Energy to the 20% cost share requirement from EPACT 2005 for this Funding Opportunity Announcement**



FY 2006-08 University Funding*

Program	FY 2006	FY 2007	FY 2008
University Reactor Infrastructure and Education Assistance	26,730	16,547	0
Research Reactor Infrastructure	0	0	2,947
R&D Program Funded Research	24,391	34,252	58,572
Generation IV	6,067	5,463	5,772
Nuclear Hydrogen Initiative	5,116	4,300	4,300
Advanced Fuel Cycle Initiative	13,208	24,489	48,500
Total Funding for Universities	51,121	50,799	61,519

*These actuals and estimates do not include National Laboratory directed funding for universities. Funding within individual programs may vary depending upon the performance of individual program activities. Total funding for Universities is expected to be as shown.



NE supports Universities

Future Plans

Have two types of Funding Opportunity Announcements per year

- ◆ **NERI for Individual Principal Investigators**
- ◆ **NERI for Consortia**

Both funded by NE R&D Programs



Conclusion

- ◆ Over the past decade, NE has been the leader in supporting nuclear engineering research and education and will continue to be
- ◆ NE would like to partner with the university community in promoting NE's nuclear R&D